

# THEERAPHOL WATTANAVEKIN

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## Education

### 2009- 2012      **The University of Tokyo, Tokyo, Japan**

- Master of Engineering in Precision Engineering (Mobile Robotics Lab.), GPA 3.87/4.00

### 2005-2009      **Chulalongkorn University, Bangkok, Thailand**

- Bachelor of Engineering in Computer Engineering
- First-class honours, GPA 3.61/4.00

## Professional Experience Highlights

### 2012-Current   **Big Data Department, Rakuten, Inc.**

Search Engine Administrator

- Deployed and migrated our in-house global search platform for 12 services in Japan and many countries all over the world such as UK (Play.com), Spain, Malaysia, Indonesia and yet more to come
- Administrated on many clusters ( > 500 nodes ) including with many open sources components such as Hadoop, Zookeeper, Cassandra and Solr
- Help troubleshooting performance bottleneck for Java Heap and GC which resulted in increasing a maximum search performance by 400%
- Introduced Chef-server which is estimated to reduce man-hour by ~80% of all operations
- Implemented lightweight log collection tool specific for an in-house autotest tool

### 2007-2008      **Robot Club, Chulalongkorn University**

Club President & Robocup Soccer Team Leader

- Led team to win 1<sup>st</sup> place in World Robocup Championship, Suzhou, China, 2008
- Managed team of different roles and backgrounds composed of mechanical, electrical and computer engineers, delegated responsibilities among 16 members, led team in implementation, and communication between different roles
- Developed firmware and embedded system as a main processor on soccer robots (FPGA/Verilog)
- Created ball-kicker power tuner application (C#) for AI in robot soccer which resulted in maximizing and stabilizing kick power at world competitions
- Made sponsor finding team, created organizer website (PHP & SQL) and proposed robot project plans to many organizations which leads to sponsor funds of total 1.2 million baht
- Organized robotics boot camps for new generations in university ( > 100 engineers)

## Selected Honors and Awards

- Japanese Embassy Scholarship (MEXT) 2009-2012
- 2<sup>nd</sup> and 1<sup>st</sup> place, World Robocup Championship in 2007 and 2008 (USA & China)
- 2<sup>nd</sup> place, 11<sup>th</sup> National Software Contest (Open source software), Thailand, 2009
- Bronze Awards in Mobile Application, Samart Innovation Awards, 2007
- Received Sun Certified Programmer for the Java 2 Platform from Sun Microsystems, 2007

## Selected Skills and Abilities

- **Framework:** Chef, Qt SDK, OpenCV, ROS, MRPT
- **Programming:** C/C++, Ruby, Python, HTML/CSS/PHP, JavaScript, Node.js, Java, C#, Verilog
- **Language:** Thai(native), English (TOEIC 985), Japanese